



IDAHO DEPARTMENT  
OF HEALTH AND WELFARE  
DIVISION OF  
ENVIRONMENTAL QUALITY

1410 North Hilton, Boise, ID 83706-1255, (208) 334-0502

Philip E. Batt, Governor

February 21, 1997

CERTIFIED MAIL #P 875 705 097

Rob Sterling, Environmental Coordinator  
Micron Technology, Incorporated  
8000 South Federal Way  
Boise, Idaho 83707-0006

Re: Micron Technology, Incorporated (Boise) - #9503-034-2  
Installation of Three Diesel Emergency Generators and Tier II Operating  
Permit (#001-00044) Amendment

Dear Mr. Sterling:

On November 5, 1996, the Division of Environmental Quality (DEQ) received a letter from Micron Technology, Inc. (MTI) notifying DEQ of the intent to construct three additional diesel emergency generators, as per Tier II Operating Permit (OP #001-00044) and per IDAPA 16.01.01.221.04.d. MTI also requested in the letter to raise certain short-term (lb/hr) emission limits found in the facility's OP #001-00044. Additionally, on January 31, 1997, DEQ received a letter from MTI requesting from DEQ to change the naming convention of all the emergency generators that are found in OP #001-00044.

Based on the review of the material submitted, state and federal rules and regulations, DEQ finds that this project meets the provisions of IDAPA 16.01.01.200 (Rules for the Control of Air Pollution in Idaho) (Rules) and the requirements set forth in the facility's Tier II OP #001-00044.

Please find enclosed the amended permit of Tier II OP #001-00044 that was issued to MTI on June 29, 1995. This amended permit will supersede the previously issued permit.

Please be advised that the amendment of the Tier II Operating Permit is subject to permit application fee, in accordance with IDAPA 16.01.01.470 of the Rules. Information regarding payment of the application fee will be sent to you shortly.

If you have any questions regarding the terms or conditions of this enclosed permit amendment, please contact Martin Bauer, Chief, Air Quality Permitting Bureau, at (208) 373-0502.

Sincerely,

Orville D. Green  
Assistant Administrator  
Air and Hazardous Waste Division

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Enclosure

cc: Boise Regional Office  
Source File  
COF

<p style="text-align: center;"><b>STATE OF IDAHO AIR POLLUTION OPERATING PERMIT</b></p> <p style="text-align: center; margin-top: 100px;"><b>GENERAL INFORMATION</b></p>	<p><b>PERMIT NUMBER</b></p> <div style="display: flex; align-items: center; justify-content: center; margin-bottom: 10px;"> <div style="border: 1px solid black; padding: 2px 5px; margin: 0 2px;">0</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 0 2px;">0</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 0 2px;">1</div> <div style="margin: 0 5px;">-</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 0 2px;">0</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 0 2px;">0</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 0 2px;">0</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 0 2px;">4</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 0 2px;">4</div> </div> <div style="display: flex; justify-content: space-around; margin-bottom: 10px;"> <div style="text-align: center;"> <p><b>AQCR</b></p> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">0</div> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">6</div> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">4</div> </div> <div style="text-align: center;"> <p><b>CLASS</b></p> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">A</div> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">1</div> </div> <div style="text-align: center;"> <p><b>SIC</b></p> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">3</div> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">6</div> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">7</div> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">4</div> </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>ZONE</b></p> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">1</div> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">1</div> </div> <div style="text-align: center;"> <p><b>UTM COORDINATE (km)</b></p> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">5</div> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">6</div> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">9</div> <div style="margin: 0 5px;">.</div> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">0</div> <div style="margin: 0 5px;">,</div> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">4</div> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">8</div> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">1</div> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">9</div> <div style="margin: 0 5px;">.</div> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">7</div> </div> </div>	
<p><b>1. PERMITTEE</b> Micron Technology, Incorporated</p>		
<p><b>2. PROJECT</b> Tier II Operating Permit -- Emergency Generators</p>		
<p><b>3. ADDRESS</b> 8000 South Federal Way</p>	<p><b>TELEPHONE #</b> (208) 368-4529</p>	<p><b>COUNTY</b> ADA</p>
<p><b>4. CITY</b> Boise</p>	<p><b>STATE</b> Idaho</p>	<p><b>ZIP CODE</b> 83706</p>
<p><b>5. PERSON TO CONTACT</b> Chelly Reesman</p>	<p><b>TITLE</b> Environmental Coordinator</p>	
<p><b>6. EXACT PLANT LOCATION</b> Close to Federal Way in Boise, Idaho</p>		
<p><b>7. GENERAL NATURE OF BUSINESS &amp; KINDS OF PRODUCTS</b> Semiconductor Manufacturing</p>		
<p><b>8. GENERAL CONDITIONS</b></p> <p style="margin-top: 20px;">This permit is issued according to the Rules for the Control of Air Pollution in Idaho, Section 16.01.01.400 and pertains only to emissions of air contaminants which are regulated by the State of Idaho and to the sources specifically allowed to be operated by this permit.</p> <p style="margin-top: 20px;">THIS PERMIT HAS BEEN GRANTED ON THE BASIS OF DESIGN INFORMATION PRESENTED WITH ITS APPLICATION CHANGES IN DESIGN OR EQUIPMENT, THAT RESULT IN ANY CHANGE IN THE NATURE OR AMOUNT OF EMISSIONS, MAY BE A MODIFICATION. MODIFICATIONS ARE SUBJECT TO DEPARTMENT OF HEALTH AND WELFARE, DIVISION OF ENVIRONMENTAL QUALITY (DEQ) REVIEW IN ACCORDANCE WITH Section 16.01.01.200 OF THE Rules for the Control of Air Pollution in Idaho.</p>		
<p style="text-align: center;"><i>David D. Green</i></p> <p><b>ASSISTANT ADMINISTRATOR</b> <b>DIVISION OF ENVIRONMENTAL QUALITY</b></p>		<p><b>ISSUED</b> <u>February 21, 1997</u> Date</p> <p><b>EXPIRES</b> <u>June 29, 2000</u> Date</p>

## AIR POLLUTION OPERATING PERMIT

## PERMIT NUMBER

## Permittee AND LOCATION

Micron Technology, Incorporated  
Tier II Operating Permit  
Boise, Idaho

001 - 00044

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

## SOURCE

Emergency Diesel Generators

## 1. EMISSION LIMITS

- 1.1 PM-10 (particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers), PM (particulate matter), SO<sub>2</sub> (sulfur dioxide), NO<sub>x</sub> (oxides of nitrogen), CO (carbon monoxide), and VOC (volatile organic compounds) emissions from each of the EU2-GEN-01, EU2-GEN-02, EU2-GEN-03, EU2-GEN-04, and EU2-GEN-05 emergency generators shall not exceed the pound per hour (lb/hr) values listed in Appendix A.
- 1.2 PM, PM-10, SO<sub>2</sub>, NO<sub>x</sub>, CO, and VOC emissions from any additional emergency generators shall not exceed the pound per hour (lb/hr) emission limits for any existing generators (i.e., EU2-GEN-01, EU2-GEN-02, EU2-GEN-03, EU2-GEN-04, & EU2-GEN-05) values listed in Appendix A.
- 1.3 Aggregated annual emissions from all generators shall not exceed the ton per year (T/yr) values listed in Appendix A based on a twelve (12) month rolling average.
- 1.4 Visible stack emissions shall not exceed twenty percent (20%) opacity for more than three (3) minutes in any sixty (60) minute period, as required in IDAPA 16.01.01.625 (Rules for the Control of Air Pollution in Idaho) and as determined using DEQ's "Procedures Manual for Air Pollution Control."
- 1.5 Sulfur dioxide (SO<sub>2</sub>) emissions shall be limited by burning No. 2 and/or No. 1 fuel oil that contains a maximum sulfur content of 0.5 percent by weight as required in IDAPA 16.01.01.728.

## 2. OPERATING REQUIREMENTS

- 2.1 Each emergency generator shall use only No. 2 and/or No. 1 fuel oil. The operation of each emergency generator shall not exceed 200 hours per year (hr/yr) based on a twelve (12) month rolling average.
- 2.2 All emergency generators shall not be operated, except for emergencies, during any period in which an Atmospheric Stagnation Advisory and/or a mandatory Wood Stove Curtailment in Boise have been declared by DEQ.
- 2.3 Any additional emergency generators that are installed at the facility shall have capacities that do not exceed 1851 hp and shall comply with all applicable requirements including IDAPA 16.01.01.200, prior to construction.

## 3. REPORTING AND RECORDKEEPING REQUIREMENTS

- 3.1 The Permittee shall record the amount of No. 2 and/or No. 1 fuel oil used in each emergency generator in a calendar year and the hours of operation (hours per day and hours per year) for each emergency generator. The hours shall be recorded as either emergency hours resulting from an electric power outage or as maintenance hours. These records shall be maintained in a log and remain on-site for a minimum period of two (2) years and shall be made available to DEQ personnel upon request.
- 3.2 The Permittee shall notify DEQ in writing prior to construction of any additional emergency generators at the facility.

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## SOURCE

Emergency Diesel Generators

## APPENDIX A

## 4MICRON TECHNOLOGY, INCORPORATED - BOISE

## EMERGENCY GENERATORS

HOURLY (lb/hr) AND ANNUAL (T/yr) POINT SOURCE EMISSION LIMITS

SOURCE	PM		PM-10		SO <sub>2</sub>		CO		NO <sub>x</sub>		VOC	
	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
EU2-GEN-01	1.05		1.05		0.97		3.2		14.7		1.4	
EU2-GEN-02	0.75		0.75		0.70		2.3		10.5		1.0	
EU2-GEN-03	0.77		0.77		5.8		7.6		35.0		1.1	
EU2-GEN-04	0.99		0.99		7.5		9.8		51.4		1.4	
EU2-GEN-05	0.58		0.58		0.54		1.8		8.1		0.78	
Aggregated Generators		1.28		1.28		8.01		10.91		50.02		1.73

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**OPERATING PERMIT GENERAL PROVISIONS**

- A. All emissions authorized herein shall be consistent with the terms and conditions of this permit. The emission of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the **Rules for the Control of Air Pollution in Idaho**, and the Environmental Protection and Health Act, Idaho Code 39-101 et. seq.
- B. The Permittee shall at all times (except as provided in the **Rules for the Control of Air Pollution in Idaho**) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable laws for the control of air pollution.
- C. The Permittee shall allow the Director, and/or his authorized representative(s), upon the presentation of credentials:
- 1) To enter upon the Permittee's premises where an emission source is located, or in which any records are required to be kept under the terms and conditions of this permit; and
  - 2) At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring methods required in this permit, and to require stack emission testing (i.e., performance tests) in conformance with state approved or accepted EPA procedures when deemed appropriate by the Director.
- D. Except for data determined to be confidential under Section 39-111, Idaho Code, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the appropriate regional office of the Division of Environmental Quality.
- E. Nothing in this permit is intended to relieve or exempt the Permittee from compliance with any applicable federal, state, or local law or regulation, except as specifically provided herein.
- F. In the event of any change in control or ownership of source(s) from which the authorized emissions emanate, the Permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Director.
- G. This permit shall be renewable on the expiration date, provided the Permittee submits any and all information necessary for the Director to determine the amount and type of air pollutants emitted from the equipment for which this permit is granted. Failure to submit such information within sixty (60) days after receipt of the Director's request shall cause the permit to be voided.
- H. The Director may require the Permittee to develop a list of Operation and Maintenance Procedures which must be approved by DEQ. Such list of procedures shall become a part of this permit by reference, and the Permittee shall adhere to all of the operation and maintenance procedures contained therein.

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- I. Performance tests (i.e.; air emission source tests) conducted pursuant to testing requirements in this permit must be conducted in accordance with DEQ's **Procedures Manual for Air Pollution Control**. Such testing shall not be conducted on weekends or state holidays unless the Permittee obtains prior DEQ approval.

The Permittee shall submit a test protocol and a proposed test date for each performance test required by this permit to DEQ for approval at least thirty (30) days prior to each respective test date (including each test date for periodic tests such as, for example, annual tests). The Permittee shall promptly notify DEQ of any change in the proposed test date and shall provide at least five (5) working days advanced notice prior to conducting any rescheduled test, unless DEQ approves a shorter notice period.

Within forty-five (45) days of the date on which a performance test required by this permit is concluded, the Permittee shall submit to DEQ a performance test report for the respective test. The performance test report shall include any and all process operating data required to be recorded during the test period as well as the test results, raw test data, and associated documentation.

The maximum allowable source operating rate shall be limited to 120% of the average operating rate attained during the most recent performance test conducted pursuant to this permit which demonstrated compliance with the respective pollutant emission limit unless; (1) a more restrictive operating limit is specified elsewhere in this permit or; (2) at such an operating rate, emissions would exceed any emission limit(s) set forth in this permit.

- J. The provisions of this permit are severable; and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

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